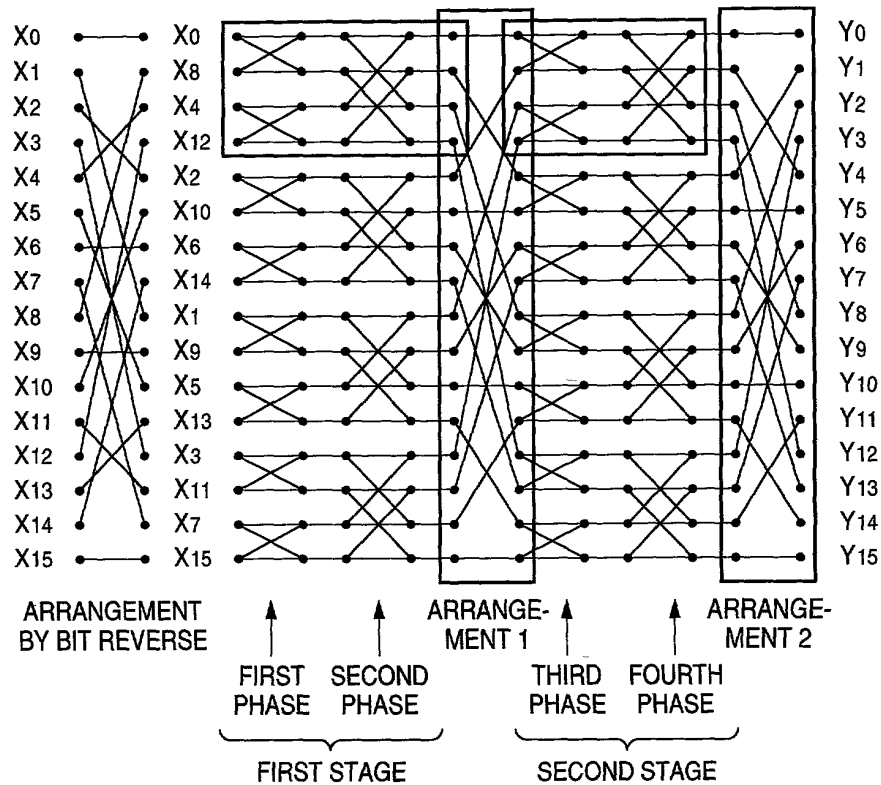
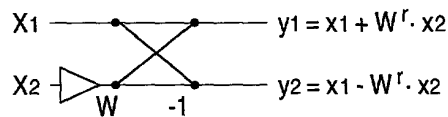


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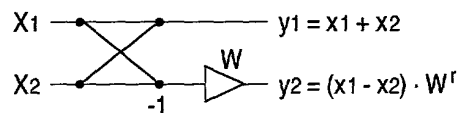
FIG. 1



TIME DECIMATION METHOD



FREQUENCY DECIMATION METHOD



x1, x2: INPUT DATA (COMPLEX NUMBER)

y1, y2: OUTPUT DATA (COMPLEX NUMBER)

 W^r : ROTATOR COEFFICIENT (COMPLEX NUMBER) $W = \text{EXP}(-j2\pi/N)$ N: SAMPLE NUMBER

FFT COMPUTATION EXPRESSION 1

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FIG. 2-1

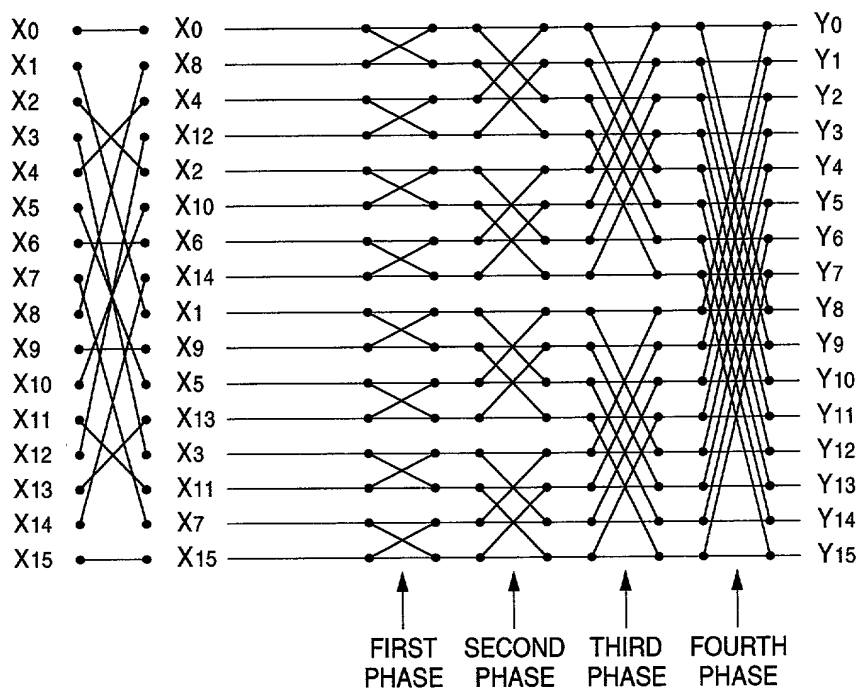
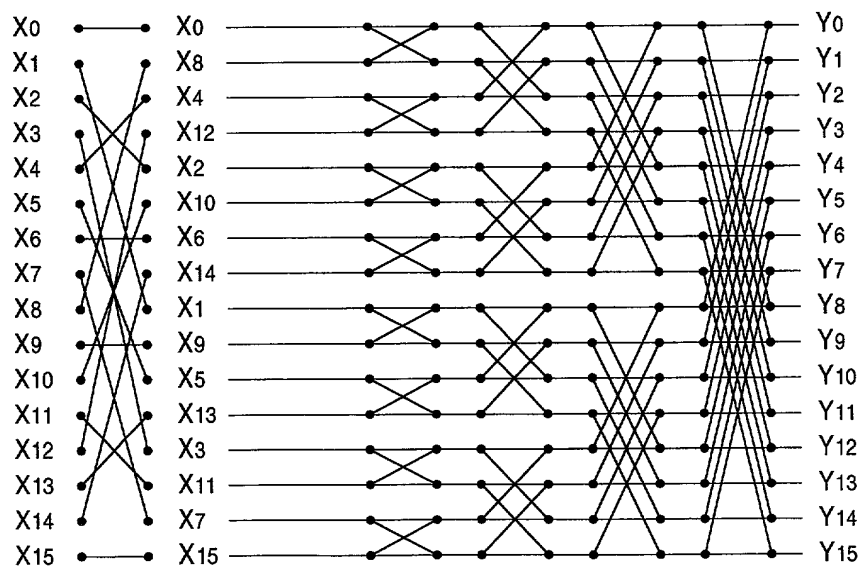


FIG. 2-2



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FIG. 3

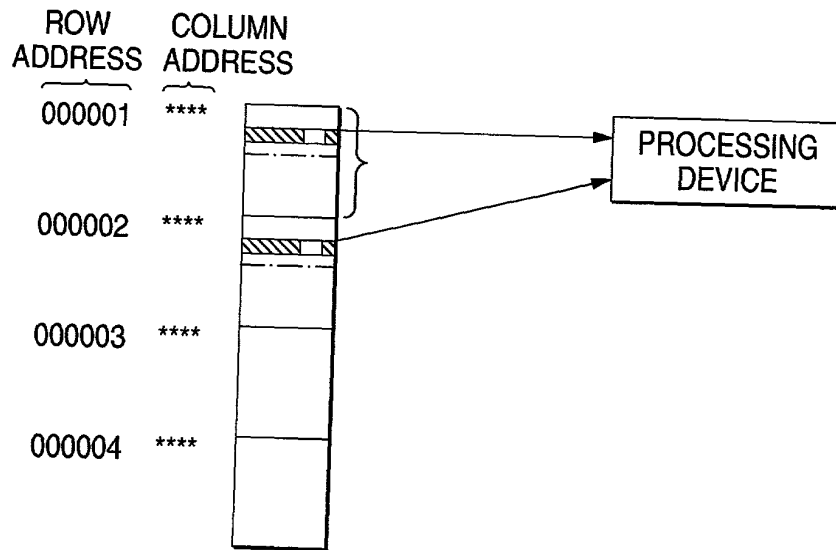
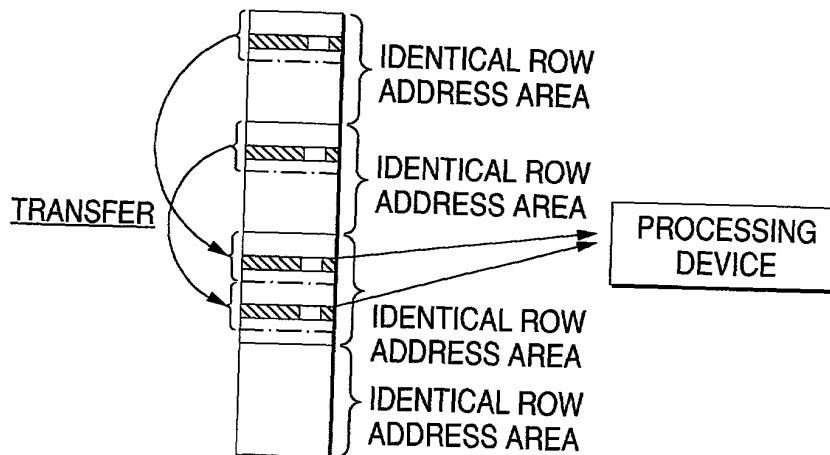


FIG. 4



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FIG. 5-1

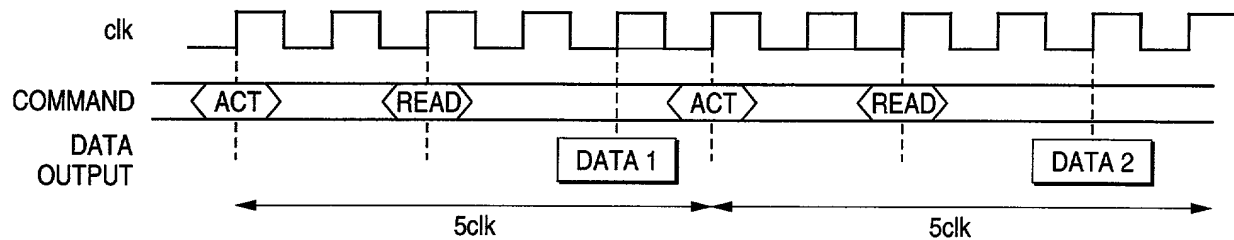


FIG. 5-2

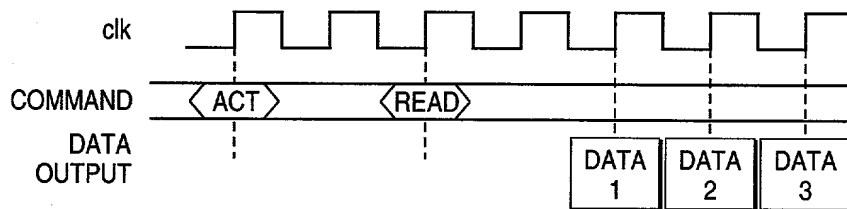


FIG. 5-3

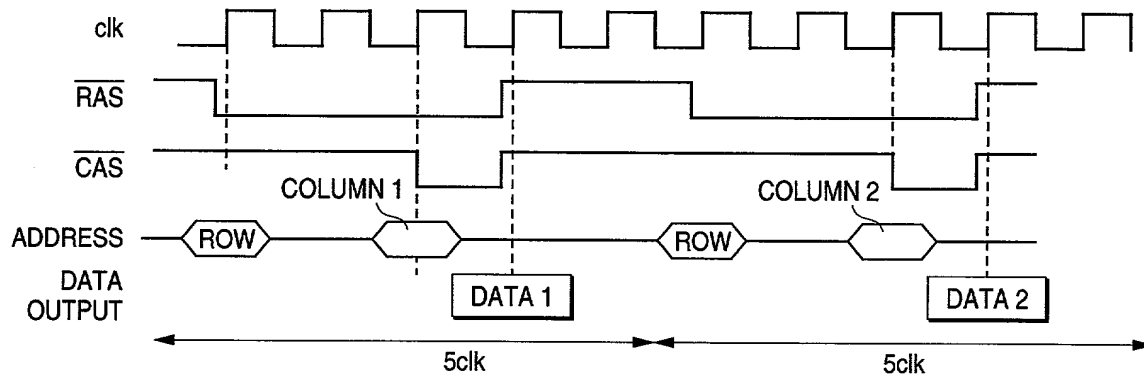
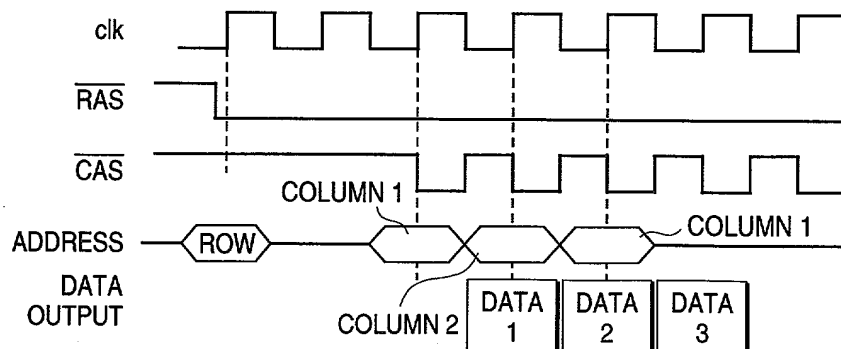


FIG. 5-4



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FIG. 6-1

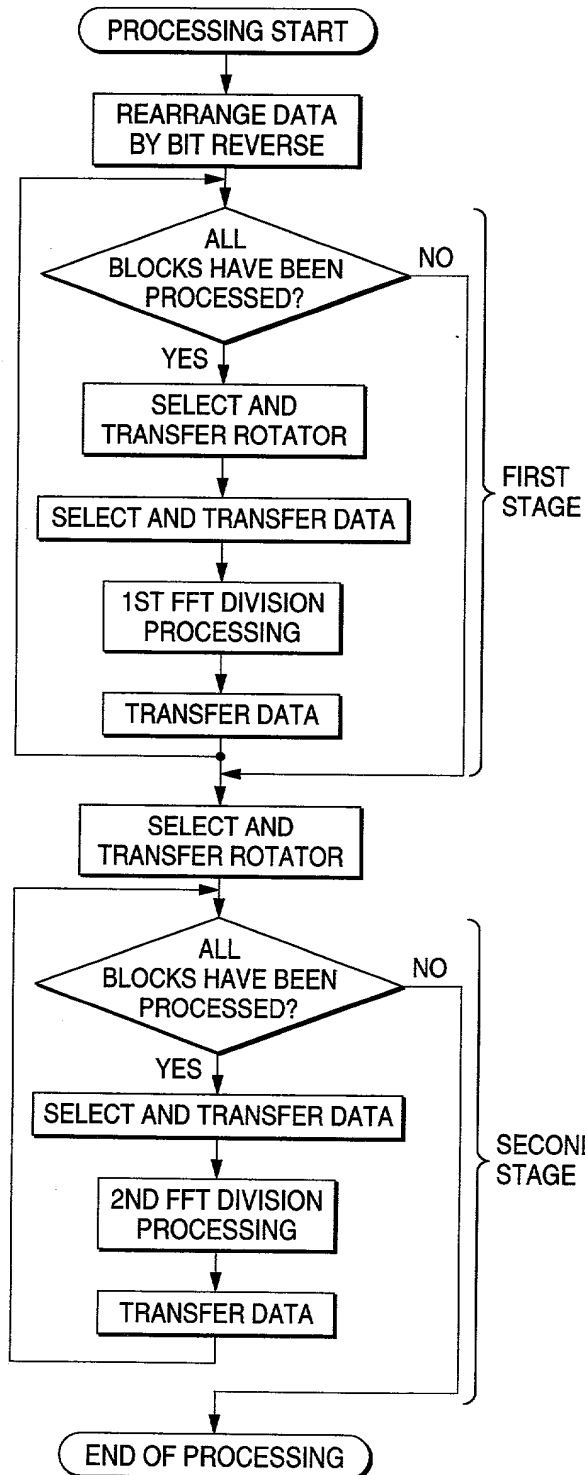


FIG. 6-2

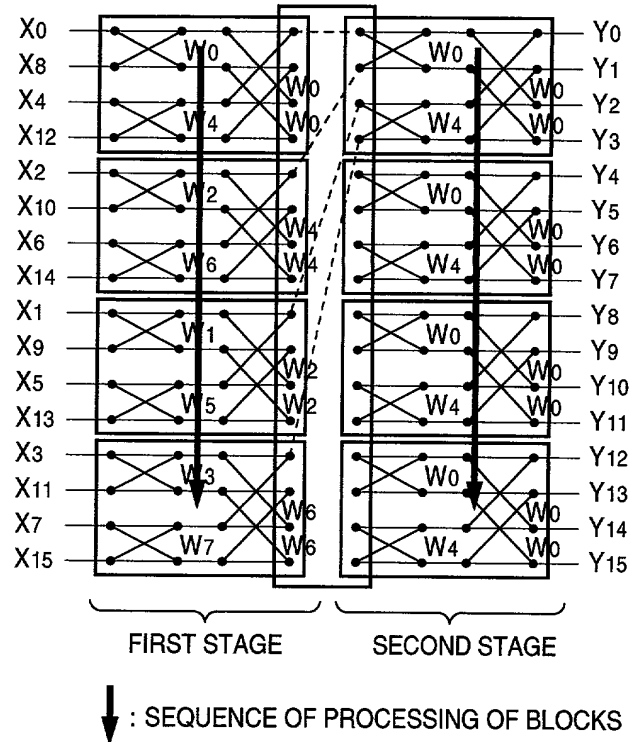


FIG. 7

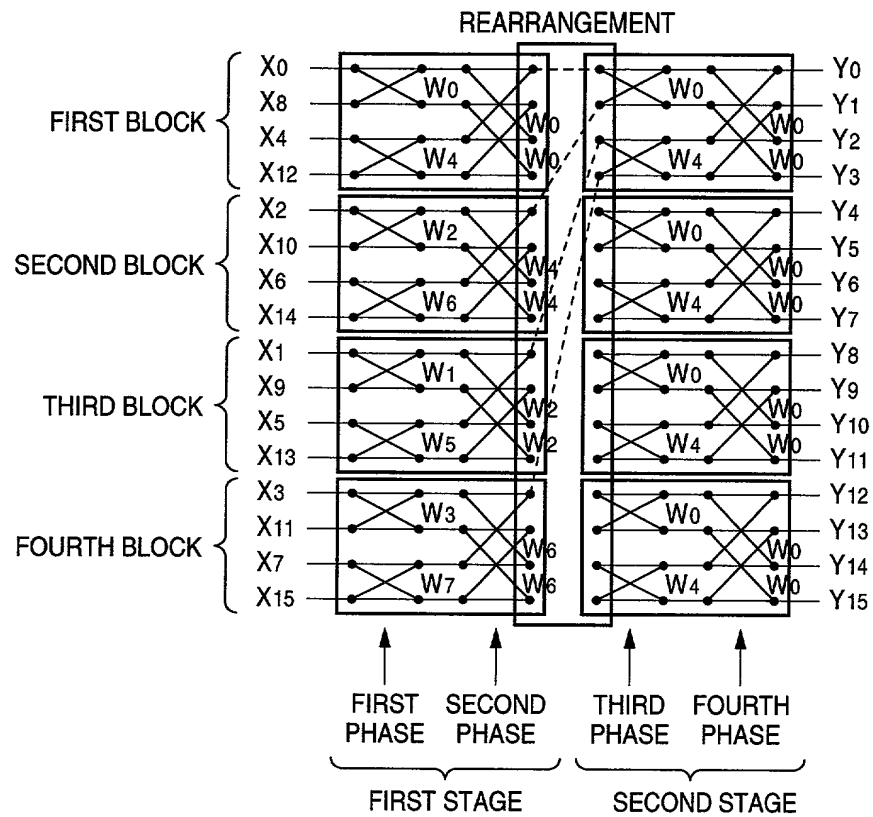
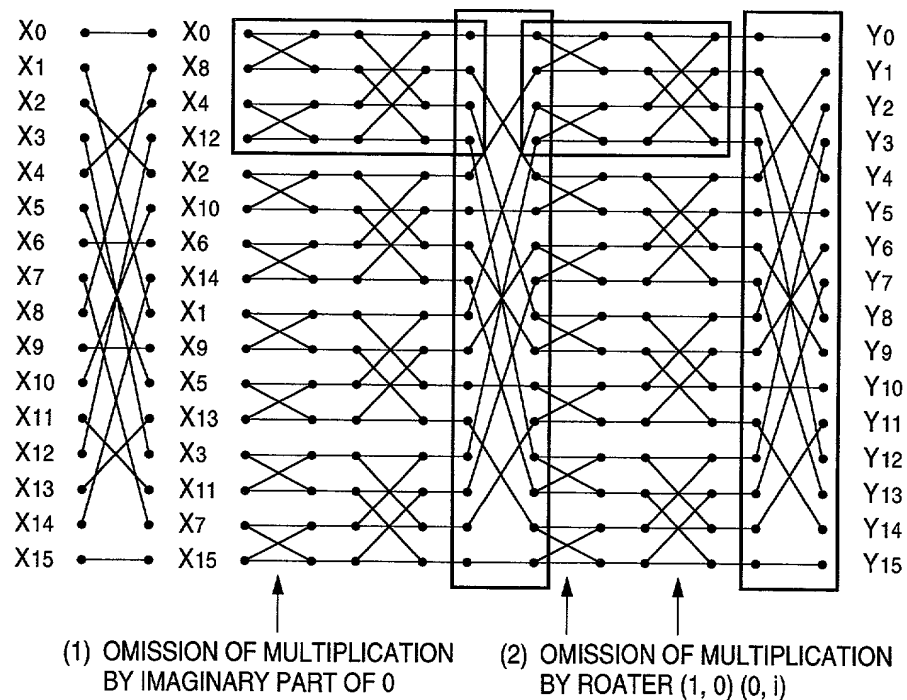


FIG. 8



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FIG. 9

FIRST BLOCK				SECOND BLOCK			
FIRST STAGE	SECOND STAGE	THIRD STAGE	FOURTH STAGE	FIRST STAGE	SECOND STAGE	THIRD STAGE	FOURTH STAGE
w[0]	w[0]	w[0]	w[0]	w[0]	w[0]	w[0]	w[0]
w[4]	w[4]	w[4]	w[4]	w[4]	w[4]	w[4]	w[4]
w[2]	w[2]	w[2]	w[2]	w[2]	w[2]	w[2]	w[2]
w[6]	w[6]	w[6]	w[6]	w[6]	w[6]	w[6]	w[6]
w[1]	w[1]	w[1]	w[1]	w[1]	w[1]	w[1]	w[1]
w[5]	w[5]	w[5]	w[5]	w[5]	w[5]	w[5]	w[5]
w[3]	w[3]	w[3]	w[3]	w[3]	w[3]	w[3]	w[3]
w[7]	w[7]	w[7]	w[7]	w[7]	w[7]	w[7]	w[7]
THIRD BLOCK				FOURTH BLOCK			
FIRST STAGE	SECOND STAGE	THIRD STAGE	FOURTH STAGE	FIRST STAGE	SECOND STAGE	THIRD STAGE	FOURTH STAGE
w[0]	w[0]	w[0]	w[0]	w[0]	w[0]	w[0]	w[0]
w[4]	w[4]	w[4]	w[4]	w[4]	w[4]	w[4]	w[4]
w[2]	w[2]	w[2]	w[2]	w[2]	w[2]	w[2]	w[2]
w[6]	w[6]	w[6]	w[6]	w[6]	w[6]	w[6]	w[6]
w[1]	w[1]	w[1]	w[1]	w[1]	w[1]	w[1]	w[1]
w[5]	w[5]	w[5]	w[5]	w[5]	w[5]	w[5]	w[5]
w[3]	w[3]	w[3]	w[3]	w[3]	w[3]	w[3]	w[3]
w[7]	w[7]	w[7]	w[7]	w[7]	w[7]	w[7]	w[7]

	FIRST BLOCK	SECOND BLOCK	THIRD BLOCK	FOURTH BLOCK
0	w[0]	w[2]	w[1]	w[3]
1	w[4]	w[6]	w[5]	w[7]
2	w[0]	w[4]	w[2]	w[6]

FIG. 10

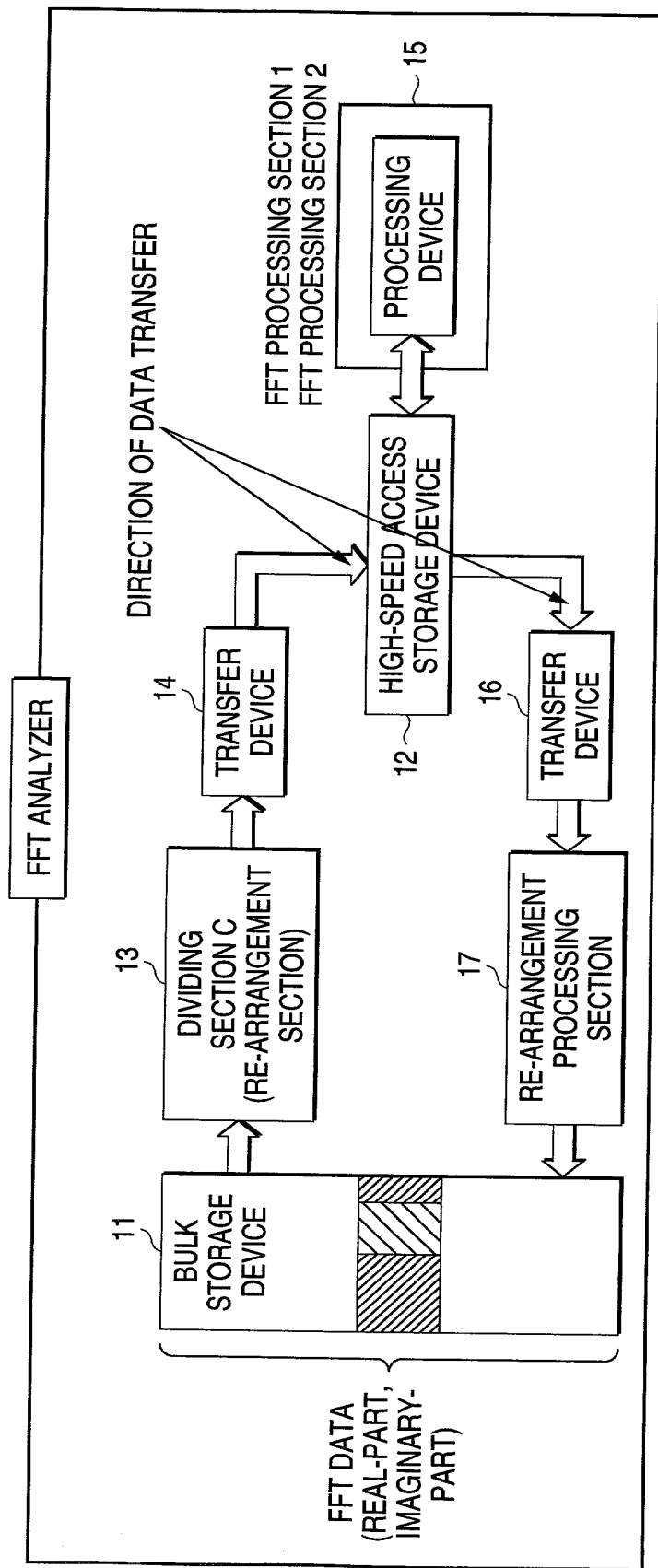


FIG. 11

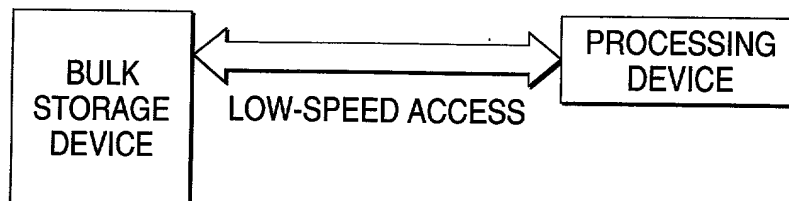


FIG. 12-1

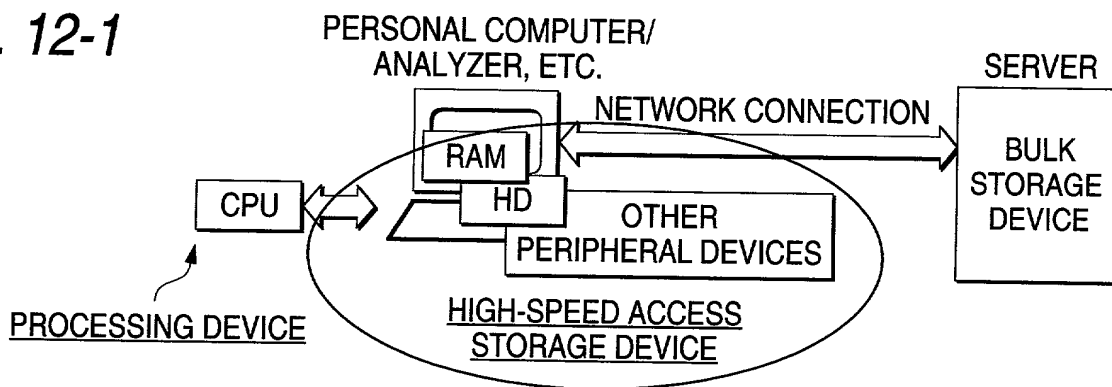


FIG. 12-2

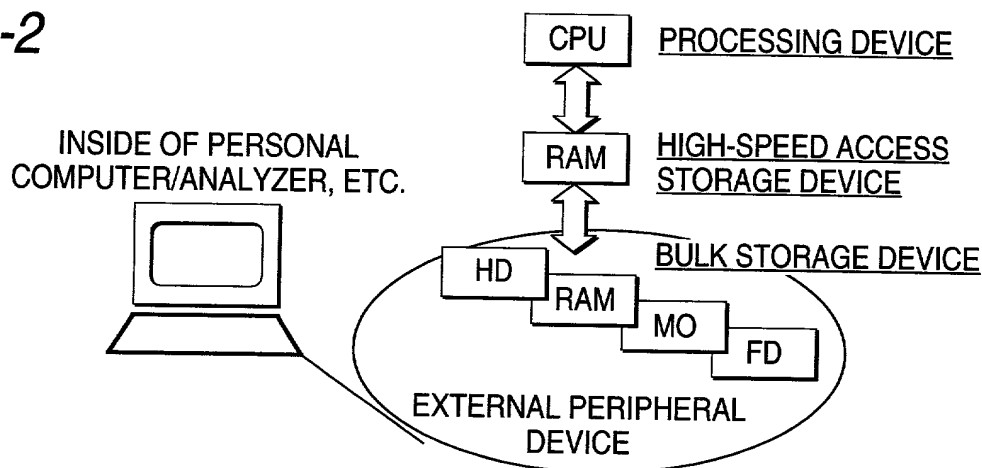


FIG. 12-3

